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| **Use** | **Type** | **Active Ingredient/Name(s)** | **Route** | **Description** | **Side Effects** |
| Prevention of premature ovulation/ovarian suppression/luteal primming | GnRH agonist | Buserelin/Suprefact | SC injection | Acts on LHRH receptors initially causing an increase in FSH & LH, after 10 days pituitary is desensitized and reduces FSH & LH production – inhibits androgen and estrogen  | Menopausal symptoms |
| Nafarelin/Synarel | Nasal spray |
| Leuprolide/ Lupron | IM injection |
| GnRH antagonist | Cetrorelix/CetrotideGanirelix/Orgalutran | SC injection | Stops LH production  | Nausea, headaches |
| Estradiol | Progynova  | Tablet/patch | Used with GnRH protocol in luteal phase. Syncs follicles. Used with poor responders.  | Nausea, vomiting, abdominal cramps, bloating, weight change, breast enlargement and tenderness, changes in libido, depression, mood changes, HA, migraine, dizziness, leg cramps, vaginal candidiasis, eye dryness |
| Ovulation stimulation | Pulsed LHRH/GnRH | Gonadorelin/Factrel/Lutrepulse | IV injection | Synthetic GnRH stimulates LH & FSH (lesser degree) | Nausea, headaches, abdominal pain, increased bleeding |
| Anti-estrogen | Clomiphene/Clomid/Clomifene/Serophene | tablet | Blocks E2 receptors in hypothalamus to allow for continued FSH/LH production and follicular development | Hot flushes, abdominal discomfort |
| Human menopausal gonadotrophin  | Menotrophin FSH LH/Menopur/Merional/Repronex | IM/SC injection | Purified extract of post-menopausal urine FSH + LH (1:1 ratio) to stimulate follicular development  | GI disturbances, headache, joint pain, fever |
| Urofollitropin FSH/Bravelle/Fertinorm HP/Fostimon | Purified extract of post-menopausal urine FSH to stimulate follicular development |
| Gonadotrophin (man-made LH) | Lutropin alfa/Luveris | SC injection | Used with man-made FSH to stimulate follicular development  | Nausea, vomiting, abdominal and pelvic pain, headaches, somnolence |
| Gonadotrophin (man-made FSH) | Follitropin alfa/Gonal-F/Follistim | IM/SC injection | Used to stimulate follicular development  | GI issues, headache, joint pain, fever  |
| Dopamine agonists | Bromocriptine/ParlodelCabergoline/Dostinex | tablet | Ovulation induction in patients with high prolactin levels, reduces the amount of prolactin released by pituitary  | Nausea, constipation, HA, hypotension, drowsiness, dyskinesia, pathological gambling, increased libido, leg cramps, alopecia, peripheral oedema  |
| Human Growth Hormone | Somatropin/Omnitrop | SC injection | Helps convert T to E2. Used with AMA and poor responders.  | HA, joint pain, edema |
| Oocyte maturation/Trigger shot | Chorionic gonadotrophin | Pregnyl | IM/SC injection | Urinary hCG from pregnant women used in oocyte maturation. Better for poor responders and low E2. | edema, HA, fatigue, mood changes, gynaecomastia |
| Ovitrelle | SC injection | Man-made hCG used for oocyte maturation. Better for poor responders and low E2. | Nausea, vomiting, abdominal pain, HA, fatigue |
| GnRH agonist  | Leuprolide/ Lupron – double shot | IM Injection | Creates a surge of FSH & LH from Pituitary. Better for people with high E2. Also reduces OHSS.  |  |
| Luteal support | Progesterone | Crinone | Vaginal gel | Luteal phase and early pregnancy support | Bloating, fluid retention, breast tenderness, weight change, nausea, HA, dizziness, insomnia, drowsiness, depression, change in libido, pain, diarrhea, flatulence |
| Cyclogest | Pessarie |
| Gestone | IM injection |
| Endometrial lining growth | Estradiol  | Progynova  | Tablet/patch | Promote endometrial lining growth | Nausea, vomiting, abdominal cramps, bloating, weight change, breast enlargement and tenderness, changes in libido, depression, mood changes, HA, migraine, dizziness, leg cramps, vaginal candidiasis, eye dryness  |
| Blood thinners | Antiplatelet | Aspirin | Tablet | Decrease platelet aggregation, inhibit thrombus formation | Bronchospasm, GI irritation, hemorrhage |
| Anticoagulant- low molecular weight heparin | Enoxaparin sodium/Clexane/Lovenox | SC injection | Hemorrhage, thrombocytopenia, bruising  |